

Sequence Listing

<110> Botstein,David

Desnoyers,Luc

Ferrara,Napoleone

Fong,Sherman

Gao,Wei-Qiang

Goddard,Audrey

Gurney,Austin L.

Pan,James

Roy,Margaret Ann

Stewart,Timothy A.

Tumas,Daniel

Watanabe,Colin K.

Wood,William I.

<120> Secreted and Transmembrane Polypeptides and Nucleic
Acids Encoding the Same

<130> P2930R1C4

<150> 60/095,325

<151> 1998-08-04

<150> 60/112,851

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<151> 1999-06-02

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35 40 45
Phe Ala Ile Ala Arg Arg Leu Ala Gln Asp Gly Ala His Val Val
50 55 60
Val Ser Ser Arg Lys Gln Gln Asn Val Asp Gln Ala Val Ala Thr
65 70 75

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Leu	His	Gly	Gly	Ile 110	Asp	Ile	Leu	Val	Ser 115	Asn	Ala	Ala	Val	Asn 120
Pro	Phe	Phe	Gly	Ser 125	Ile	Met	Asp	Val	Thr 130	Glu	Glu	Val	Trp	Asp 135
Lys	Thr	Leu	Asp	Ile 140	Asn	Val	Lys	Ala	Pro 145	Ala	Leu	Met	Thr	Lys 150
Ala	Val	Val	Pro	Glu 155	Met	Glu	Lys	Arg	Gly 160	Gly	Gly	Ser	Val	Val 165
Ile	Val	Ser	Ser	Ile 170	Ala	Ala	Phe	Ser	Pro 175	Ser	Pro	Gly	Phe	Ser 180
Pro	Tyr	Asn	Val	Ser 185	Lys	Thr	Ala	Leu	Leu 190	Gly	Leu	Thr	Lys	Thr 195
Leu	Ala	Ile	Glu	Leu 200	Ala	Pro	Arg	Asn	Ile 205	Arg	Val	Asn	Cys	Leu 210
Ala	Pro	Gly	Leu	Ile 215	Lys	Thr	Ser	Phe	Ser 220	Arg	Met	Leu	Trp	Met 225
Asp	Lys	Glu	Lys	Glu 230	Glu	Ser	Met	Lys	Glu 235	Thr	Leu	Arg	Ile	Arg 240
Arg	Leu	Gly	Glu	Pro 245	Glu	Asp	Cys	Ala	Gly 250	Ile	Val	Ser	Phe	Leu 255
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Arg	Ala	Val	Gly	Gly	Ser	Lys	Ala	Arg	Val	Gln	Ala	Arg	Gln	Val
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Pro	Pro	Ala	Thr	Ala	Ser	Glu	Trp	Arg	Leu	Ala	Gln	Ala	Gln	Gln
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Leu	Glu	Gly	Lys	Glu	Leu	Gln	Asp	Ala	Gly	Glu	Arg	Ser	Arg	Leu
				260					265					270
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				275					280					285
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35 40 45
Lys Ile Tyr Asn Pro Ser Glu Gln Cys Cys Tyr Asp Asp Ala Ile
50 55 60
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Trp Pro Cys Phe Glu Leu Cys Cys Pro Glu Ser Phe Gly Pro Gln
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Gln Lys Phe Leu Val Lys Leu Arg Val Leu Gly Met Lys Ser Gln
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<400> 11

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Glu	Leu	Gly	Arg	Pro	Ala	Arg	Asp	Glu	Gly	Gly	Ser	Gly	Arg	Asp	65	70	75	
Trp	Lys	Ser	Lys	Ser	Gly	Arg	Gly	Leu	Ala	Gly	Arg	Glu	Pro	Trp	80	85	90	
Ser	Lys	Leu	Lys	Gln	Ala	Trp	Val	Ser	Gln	Gly	Gly	Gly	Ala	Lys	95	100	105	
Ala	Gly	Asp	Leu	Gln	Val	Arg	Pro	Arg	Gly	Asp	Thr	Pro	Gln	Ala	110	115	120	
Glu	Ala	Leu	Ala	Ala	Ala	Ala	Gln	Asp	Ala	Ile	Gly	Pro	Glu	Leu	125	130	135	
Ala	Pro	Thr	Pro	Glu	Pro	Pro	Glu	Glu	Tyr	Val	Tyr	Pro	Asp	Tyr	140	145	150	
Arg	Gly	Lys	Gly	Cys	Val	Asp	Glu	Ser	Gly	Phe	Val	Tyr	Ala	Ile	155	160	165	
Gly	Glu	Lys	Phe	Ala	Pro	Gly	Pro	Ser	Ala	Cys	Pro	Cys	Leu	Cys	170	175	180	
Thr	Glu	Glu	Gly	Pro	Leu	Cys	Ala	Gln	Pro	Glu	Cys	Pro	Arg	Leu	185	190	195	
His	Pro	Arg	Cys	Ile	His	Val	Asp	Thr	Ser	Gln	Cys	Cys	Pro	Gln	200	205	210	
Cys	Lys	Glu	Arg	Lys	Asn	Tyr	Cys	Glu	Phe	Arg	Gly	Lys	Thr	Tyr	215	220	225	
Gln	Thr	Leu	Glu	Glu	Phe	Val	Val	Ser	Pro	Cys	Glu	Arg	Cys	Arg				

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Gln Thr Glu Cys Val Asp Pro Val Tyr Glu Pro Asp Gln Cys Cys		
260	265	270
Pro Ile Cys Lys Asn Gly Pro Asn Cys Phe Ala Glu Thr Ala Val		
275	280	285
Ile Pro Ala Gly Arg Glu Val Lys Thr Asp Glu Cys Thr Ile Cys		
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<212> PRT
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Asn Thr Ser Cys Asp Ser Gly Leu Gly Cys Gln Asp Thr Leu Met
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Leu Ile Glu Ser Gly Pro Gln Val Ser Leu Val Leu Ser Lys Gly
65 70 75
Cys Thr Glu Ala Lys Asp Gln Glu Pro Arg Val Thr Glu His Arg
80 85 90
Met Gly Pro Gly Leu Ser Leu Ile Ser Tyr Thr Phe Val Cys Arg
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Gln Glu Asp Phe Cys Asn Asn Leu Val Asn Ser Leu Pro Leu Trp
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Ala Pro Gln Pro Pro Ala Asp Pro Gly Ser Leu Arg Cys Pro Val
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Cys Leu Ser Met Glu Gly Cys Leu Glu Gly Thr Thr Glu Glu Ile
140 145 150
Cys Pro Lys Gly Thr Thr His Cys Tyr Asp Gly Leu Leu Arg Leu
155 160 165
Arg Gly Gly Gly Ile Phe Ser Asn Leu Arg Val Gln Gly Cys Met
170 175 180
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185 190 195
Pro Val Gly Met Thr Glu Asn Cys Asn Arg Lys Asp Phe Leu Thr
200 205 210
Cys His Arg Gly Thr Thr Ile Met Thr His Gly Asn Leu Ala Gln
215 220 225
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Gln	Asn	Ser	Gln	Lys	Thr	Thr	Ile	His	Ser	Ala	Pro	Pro	Gly	Val
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Leu	Val	Ala	Ser	Tyr	Thr	His	Phe	Cys	Ser	Ser	Asp	Leu	Cys	Asn
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Ser	Ala	Ser	Ser	Ser	Ser	Val	Leu	Leu	Asn	Ser	Leu	Pro	Pro	Gln
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Ala	Ala	Pro	Val	Pro	Gly	Asp	Arg	Gln	Cys	Pro	Thr	Cys	Val	Gln
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Pro	Leu	Gly	Thr	Cys	Ser	Ser	Gly	Ser	Pro	Arg	Met	Thr	Cys	Pro
				335					340					345
Arg	Gly	Ala	Thr	His	Cys	Tyr	Asp	Gly	Tyr	Ile	His	Leu	Ser	Gly
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Pro	Ser	Ser	Phe	Leu	Leu	Asn	His	Thr	Arg	Gln	Ile	Gly	Ile	Phe
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Ser	Ala	Arg	Glu	Lys	Arg	Asp	Val	Gln	Pro	Pro	Ala	Ser	Gln	His
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Glu	Gly	Gly	Gly	Ala	Glu	Gly	Leu	Glu	Ser	Leu	Thr	Trp	Gly	Val
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Arg Gln Asp Met	Arg Gln Leu Ala Leu	Arg Leu Ala Ser Leu Phe
155	160	165
Pro Ala Leu Phe	Ser Arg Glu Asn Tyr Gly	Arg Leu Arg Leu Ile
170	175	180
Thr Ser Ser Lys	His Arg Cys Met Asp Ser	Ser Ala Ala Phe Leu
185	190	195
Gln Gly Leu Trp	Gln His Tyr His Pro Gly	Leu Pro Pro Pro Asp
200	205	210
Val Ala Asp Met	Glu Phe Gly Pro Pro Thr	Val Asn Asp Lys Leu
215	220	225
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230	235	240
Lys Asn Ala Thr	Ala Leu Tyr His Val Glu	Ala Phe Lys Thr Gly
245	250	255
Pro Glu Met Gln	Asn Ile Leu Lys Lys Val	Ala Ala Thr Leu Gln
260	265	270
Val Pro Val Asn	Asp Leu Asn Ala Asp Leu	Ile Gln Val Ala Phe
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Phe Thr Cys Ser	Phe Asp Leu Ala Ile Lys	Gly Val Lys Ser Pro
290	295	300
Trp Cys Asp Val	Phe Asp Ile Asp Asp Ala	Lys Val Leu Glu Tyr
305	310	315
Leu Asn Asp Leu	Lys Gln Tyr Trp Lys Arg	Gly Tyr Gly Tyr Thr
320	325	330
Ile Asn Ser Arg	Ser Ser Cys Thr Leu Phe	Gln Asp Ile Phe Gln
335	340	345
His Leu Asp Lys	Ala Val Glu Gln Lys Gln	Arg Ser Gln Pro Ile
350	355	360
Ser Ser Pro Val	Ile Leu Gln Phe Gly His	Ala Glu Thr Leu Leu
365	370	375
Pro Leu Leu Ser	Leu Met Gly Tyr Phe Lys	Asp Lys Glu Pro Leu
380	385	390
Thr Ala Tyr Asn	Tyr Lys Lys Gln Met His	Arg Lys Phe Arg Ser
395	400	405

Gly	Leu	Ile	Val	Pro	Tyr	Ala	Ser	Asn	Leu	Ile	Phe	Val	Leu	Tyr	
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His	Cys	Glu	Asn	Ala	Lys	Thr	Pro	Lys	Glu	Gln	Phe	Arg	Val	Gln	
				425					430					435	
Met	Leu	Leu	Asn	Glu	Lys	Val	Leu	Pro	Leu	Ala	Tyr	Ser	Gln	Glu	
				440					445					450	
Thr	Val	Ser	Phe	Tyr	Glu	Asp	Leu	Lys	Asn	His	Tyr	Lys	Asp	Ile	
				455					460					465	
Leu	Gln	Ser	Cys	Gln	Thr	Ser	Glu	Glu	Cys	Glu	Leu	Ala	Arg	Ala	
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Ala	Val	Asn	Leu	Lys	Ser	Ser	Asn	Arg	Thr	Pro	Val	Val	Gln	Glu	35	40	45	
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Thr	Arg	Arg	Asp	Ser	Ala	Leu	Tyr	Arg	Cys	Glu	Val	Val	Ala	Arg	110	115	120	
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Gln	Val	Lys	Pro	Val	Thr	Pro	Val	Cys	Arg	Val	Pro	Lys	Ala	Val	140	145	150	
Pro	Val	Gly	Lys	Met	Ala	Thr	Leu	His	Cys	Gln	Glu	Ser	Glu	Gly	155	160	165	
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Pro	Thr	Asp	Ser	Arg	Ala	Asn	Pro	Arg	Phe	Arg	Asn	Ser	Ser	Phe	185	190	195	
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Lys	Asp	Asp	Ser	Gly	Gln	Tyr	Tyr	Cys	Ile	Ala	Ser	Asn	Asp	Ala	215	220	225	
Gly	Ser	Ala	Arg	Cys	Glu	Glu	Gln	Glu	Met	Glu	Val	Tyr	Asp	Leu	230	235	240	
Asn	Ile	Gly	Gly	Ile	Ile	Gly	Gly	Val	Leu	Val	Val	Leu	Ala	Val	245	250	255	
Leu	Ala	Leu	Ile	Thr	Leu	Gly	Ile	Cys	Cys	Ala	Tyr	Arg	Arg	Gly	260	265	270	
Tyr	Phe	Ile	Asn	Asn	Lys	Gln	Asp	Gly	Glu	Ser	Tyr	Lys	Asn	Pro	275	280	285	
Gly	Lys	Pro	Asp	Gly	Val	Asn	Tyr	Ile	Arg	Thr	Asp	Glu	Glu	Gly				

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Thr	Leu	His	Gln	Cys	Ile	Arg	Val	Leu	Leu	Gly	Lys	Ser	Arg	Glu
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Gln	Arg	Phe	Asp	Pro	Ser	Ala	Ser	Leu	Asp	Phe	Leu	Trp	Ala	Cys
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Asp	Ser	Val	Leu	Gly	Arg	Arg	Cys	Arg	Asp	Leu	Leu	Leu	Gln	Leu
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Tyr	Leu	Gln	Arg	Pro	Glu	Leu	Arg	Val	Pro	Val	Pro	Glu	Val	Leu
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Leu	His	Ser	Glu	Gly	Ala	Ala	Ser	Ser	Ser	Val	Cys	Lys	Leu	Asp
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Gly	Leu	Ile	His	Arg	Phe	Ile	Thr	Leu	Leu	Ala	Asp	Thr	Ser	Asp
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Ser	Arg	Ala	Leu	Glu 695	Asn	Arg	Gly	Ala	Asp 700	Ala	Ser	Met	Ala	Cys 705
Arg	Lys	Leu	Ala	Val 710	Ala	His	Pro	Leu	Leu 715	Leu	Leu	Arg	His	Leu 720
Pro	Met	Ile	Ala	Ala 725	Leu	Leu	His	Gly	Arg 730	Thr	His	Leu	Asn	Phe 735
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Ala Gly Lys Ile Gln Lys Leu Lys Asp Lys Asp Phe Gly Lys Gln		
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Ser Leu Lys Thr Tyr Gln His Phe Thr Leu Glu Lys Ala Tyr Leu		
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Ser Pro Asp Gly Tyr Leu Gln Ile Gly Ser Phe Tyr Lys Gly Val		
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